

# **IODINATED NEUROPROBE FOR MAPPING MONOAMINE REUPTAKE SITES**

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**Applicant(s):** RES BIOCHEMICALS LP +

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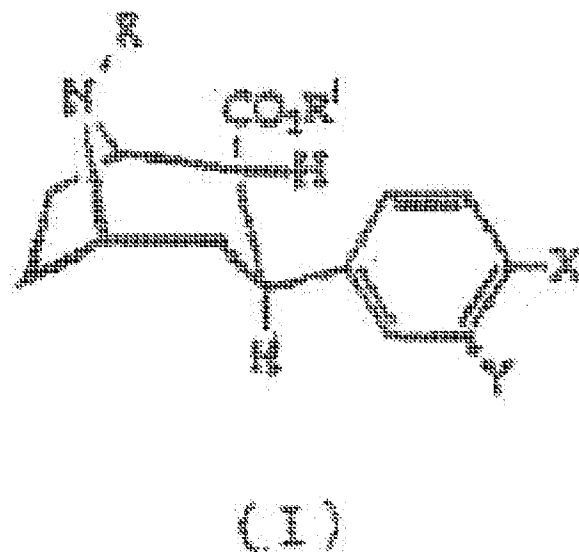
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## **Abstract of JP 2002087994 (A)**

**PROBLEM TO BE SOLVED:** To provide a neuroprobe for mapping monoamine reuptake sites in the brain, concretely usable as a radioactive tracer used in single photon emitting computer-supported tomography(SPECT) and proton emitting tomography(PET) for imaging such the reuptake sites. **SOLUTION:** This iodinated neuroprobe has general formula (I) [wherein, R is a mono fluoroalkyl group containing nF (n=18 or 19); R' is a C<sub>n</sub>H<sub>2n+1</sub> group (n=0-6); X is an isotope of F, an isotope of Cl, an isotope of Br, an isotope of I, CH<sub>3</sub> or Sn (R"<sup>1</sup>R"<sup>2</sup>R"<sup>3</sup>) (wherein, R"<sup>1</sup> is a C<sub>n</sub>H<sub>2n+1</sub> group (n=1-6) or an aryl group; R"<sup>3</sup> is a C<sub>n</sub>H<sub>2n+1</sub> group (n=1-6) or an aryl group; and Y is H)]. The precursor of the radioactive labeled neuroprobe, and a kit for preparing the iodinated neuroprobe are also provided.



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